

LEGO

magazine

EXO-FORCEGo inside the
Sentai Fortress!**MINDSTORMS
NXT tips**How to program
a better bot!**STAR WARS™**Secrets of Jabba's
Sail Barge!**PARENTS!****Special
Holiday
Offer!**

See page 30 for details.

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LEGO Group

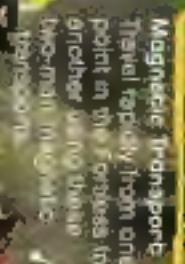


club

LEGO**EXO-FORCE****EXO-SUIT**

ATTENTION, EXO-FORCE! pilot you the EXO-SUIT. Use it wisely, as it's a powerful weapon. Use it to attack, defend, and protect. But don't let the OPPOSITES pull you down. Use it to defend, not attack. And make sure you're not pulled down.

Magnetic Transport
Travel rapidly from one point in the Fortress to another using their two-man magnetic transport.



Repair Bay
Battlo machines use the Solar Strike and Bulking ray to defend with the help of the mobile crane arm and the latest technology. Although Red of the naturally supercharged alien, Battlo likes to make sure nothing's out of machine's function.



Central Command Station
Large enough to hold two EXO-FORCE members, this is the defense of command. Located center of the Fortress. From the computer, he can control the entire base and its surrounding for robot threats. Hand weapons and armaments are also stored in this tower.



Destroyer Disk Launcher
An effective weapon against the robots, this launcher can switch from side to side to track and respond to enemy targets.



Reclaimer on Station
Pilots who are ill or injured are brought here while the medical team is working on them. On certain occasions, when the team is using the transport to power up.

Magnetic Transport
Travel rapidly from one point in the Fortress to another using their two-man magnetic transport.



VIEW
www.EXO-FORCE.com

EXO-FORCE Insider

Mechanization



Magnetic Transport
The magnetic transport can be used to transport weapons and ammunition around the Fortress.

Magnetic Transport
Travel rapidly from one point in the Fortress to another using their two-man magnetic transport.



Phase Laser Cannon
Named by Johnson, this was specially designed to damage hidden fury armor.

BUILT FOR SPEED

the Ferrari F1 Racer 1:8



Introducing the first-ever 1:8 scale LEGO Ferrari F1 Racer. Bigger; faster; sleeker and with more authentic details than ever before, this super-realistic replica of the Scuderia Ferrari F1 race car is the ultimate model for any Ferrari or racing fan to build and display.

• Scuderia Ferrari was founded by Enzo Ferrari in 1929.

• Ferrari first competed in a Formula 1 race in 1950.

• The Ferrari logo is a rearing black stallion on a yellow field.

• Real dimensions: 4548 mm long, 988 mm wide, 999 mm tall.



8674 Ferrari F1 Racer 1:8



The LEGO Ferrari model has a working steering system to handle tight racetrack curves.



Remove the engine cover on the model to reveal moving pistons.



The model includes details like real working front and rear suspension.



Remove the spoiler and nose for even more detail.



Model measures over 61cm long!

Ferrari
OFFICIAL LICENSED PRODUCT

Ferrari, all associated logos and the distinctive design are trademarks of Ferrari S.p.A. The body of the Ferrari car is produced by Ferrari property under strict confidentiality agreements.



RACERS





EXO FORCE

THIS IS SENTAI FORTRESS. IT'S THE WELL-DEFENDED AND HEAVILY ARMED HOME BASE OF EXO-FORCE. NO ROBOT HAS EVER BREACHED ITS WALLS.

NOW, CALMLY, NEVARU,
TELL ME AGAIN WHAT YOU
SAW OUT THERE.

BUT ITS STRENGTH
IS ABOUT TO
BE CHALLENGED!

IN THE REGENERATION STATION...

IT WAS THE ROBOTS'
NEW BATTLE MACHINE.
IT'S HUGE, IT'S
INCREDIBLY POWERFUL,
AND IT'S ON ITS
WAY HERE.

"THE STRIKING VENOM IS COMING. AND IT'S COMING FAST!"

ROBOT STRIKE FORCE, CONVERGE ON
SENTAI FORTRESS. THE HUMANS CANNOT
STOP US THIS TIME.

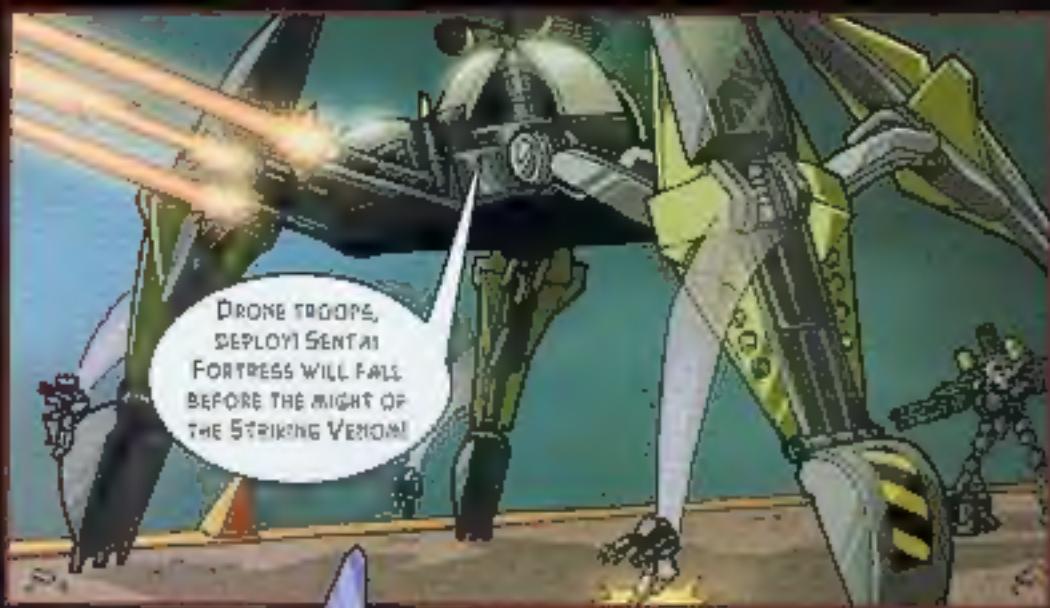
THE HUMAN DEFENDERS LEAP INTO ACTION!

"ALL PILOTS TO YOUR BATTLE MACHINES!
MAN COMBAT STATIONS! YOU MUST PROTECT
THE FORTRESS AT ALL COSTS!"

SHRAAAK!
SHRAAAK!



THE SILENT STRIKE'S REPAIRS
ARE DONE. TIME TO POWER UP!



NOT IF WE HAVE
ANYTHING TO SAY
ABOUT IT.
EXO-FORCE, GO!

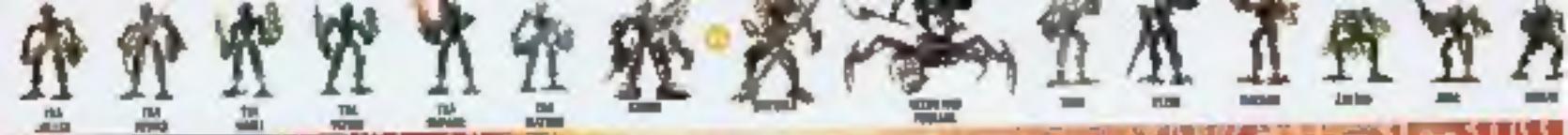
THERE'S NO END TO
THESE GUYS!

THEN WE'LL JUST
HAVE TO FIGHT HARDER!

POODLISH HUMAN. HOW CAN
YOU HOPE TO STOP THE
STRIKING VENOM?

LOOKS LIKE WE'RE BOTH
ABOUT TO FIND OUT!

FOR MORE EXO-FORCE ACTION, VISIT
WWW.EXO-FORCE.COM



COLLECT THE WARRIORS OF
VOYA NUPU



2006
BIONICLE

MAXIMUM POWER!



RACERS

The LEGO Power Racers are comin' at ya! These fast and furious speedsters are roaring with racing power, but that's not all – using their pull-back motors, each Power Racer can perform its own unique stunt! From wheelies to donuts to ramp-jumping to side-riding, there's no end to the high-speed thrills. ■



8670
Jump
Master



8667
Action Wheelie

8669
Fire Spinner 360

- Side Rider 55 and Fire Spinner 360 combine to make a two-engine monstah machine!



Jump Master and Action Wheelie combine to make a twin-engine monster racer!

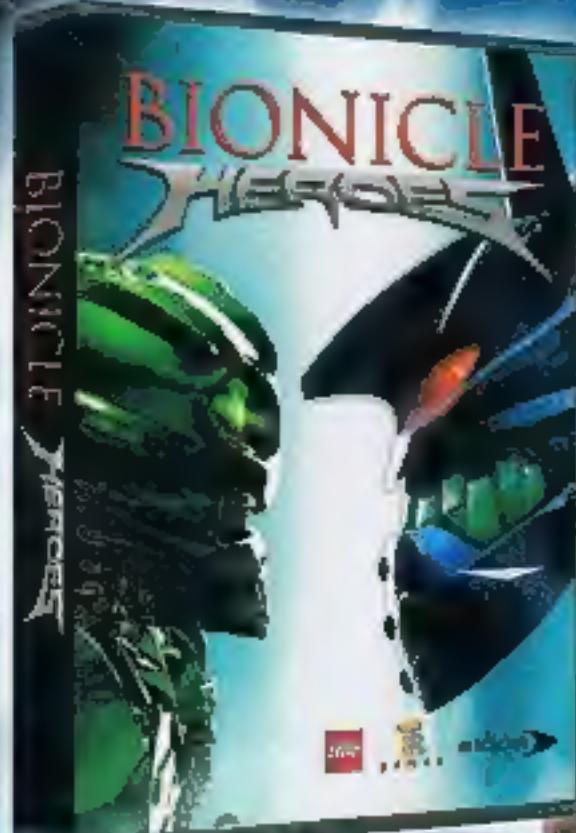
Get Ready for an All-NEW lineup of LEGO Racers.

8668
Side Rider 55

CRASHING

Your way in 2007!

BIONICLE® HEROES HITS STORES!



New BIONICLE® Fans all around the world can fulfill their wildest dreams of adventure with the BIONICLE HEROES video game. From the makers of the smash hit LEGO® Star Wars™: The Video Game series. ■

"This game is all about having lots of fun and interacting with the different characters in the BIONICLE universe," said game producer Luke Valentine. "We've created a really exciting and challenging gameplay experience that will appeal not only to BIONICLE fans, but also to gamers everywhere."

The game features 25 beautifully designed levels set across 6 huge interactive elemental zones: Water, Air, Earth, Ice, Fire and Stone. Conquer these zones one by one to unlock 19 boss characters who are out to stop you.

BIONICLE HEROES will be in stores this month for PlayStation 2, Nintendo Game Cube, PC, Nintendo DS and GameBoy Advance.





BEHIND THE BRICKS: Secrets of the Piraka Stronghold



AN INTERVIEW WITH
MODEL DESIGNER
TORBEN SKOV



"Designing a model like Piraka Stronghold isn't as easy as you might think, because it's much more than just putting pieces together. How would a stronghold built by Piraka look?"



Torben works in Billund, Denmark, global headquarters of The LEGO Company, and has been designing models for 20 years. He's been on the BIONICLE team for two years, after spending time designing models for LEGO City, Life on Mars, Sports, and Knights' Kingdom, among others.

What does it take to be a LEGO set designer? Patience, skill with and knowledge of LEGO elements, and most of all, creativity and imagination. Most set designers have backgrounds in art, architecture, or design.

Designing a model like Piraka Stronghold isn't as easy as you might think, because it's much more than just putting pieces together. First, the designer must know all about the universe he is working in – in this case, BIONICLE. What fits and what doesn't? How would a stronghold built by Piraka look?

After that's decided, the real work begins. "Elements must be developed," says Torben. "Models must be digitalized and elements counted before you can build for the first time." It's important to know how many new pieces a model will require, because that affects how much extra work will go into producing it and what it will cost to make.

Once the pieces have been decided on and approved, the model starts getting tested. Some of these are product safety tests, others are groups of fans. A typical BIONICLE fan test group consists of fans from ages 8-12, some who own a lot of BIONICLE sets and some who own only a few. They are asked to give their opinion of every aspect of the model and

whether or not it is something they would want to own. Based on what comes out of these meetings, designers may need to go back and make changes. If the focus tests come back positive, then work can start on any decorations needed for the pieces.

"Right now, I'm working on next year's BIONICLE sets, but they are secret, of course."

– Torben Skov

After that is done, building instructions are made and artists get to work designing the packaging you see in the store. As for Torben, he is on to his next big design project. So what is he working on now?

"Right now, I'm working on next year's BIONICLE sets," he says. "But they are, of course, secret."

Working on super-secret BIONICLE models ... sounds like a fun job, doesn't it? ■



DESIGNER IMAGINATIONS

Designers work in Billund, Denmark, to create sets for the BIONICLE universe. They work with other designers to come up with ideas for sets, and then work with artists to create the packaging and instructions.



DESIGNER ON THE JOB

Always using LEGO bricks, designers can build a model of the BIONICLE universe. They can then use this model to help them design sets.



DESIGN THE ZAKAR STRONGHOLD

Designers are always looking for new ideas for sets. They can use their imagination to come up with new ideas, or they can look at existing sets and try to improve them. They can also work with other designers to come up with new ideas.



降世神通 **AVATAR** THE LAST AIRBENDER



QUEST for the AIR TEMPLE

Along and his Friends are in a race against Prince Zuko to reach the Air Temple at the mountain's top! Challenge a Friend, choose your side, and get ready for adventure in the world of the Avatar.

"Quest For the Air Temple" is a game for 1-4 players.

1. Each player chooses Aang the Avatar or Prince Zuko of the Fire Nation.
2. Use LEGO Avatar minifigures or any other LEGO piece to play. You will also need a die (6-sided) and 10 LEGO bricks to make the mountain.
3. Roll the LEGO brick to see who goes first. Whoever has the lowest number (six) gets to be the first to play. Next is six, both players roll again.
4. You can either roll the brick and move across the board. If you land on a space with instructions for your side (blue for Aang and red for Prince Zuko), do what it says. If you land on a dark space or a space for the other side, your turn is over.
5. Whoever climbs the mountain and reaches the Air Temple first is the winner!

- Rolling the LEGO brick:

- If the brick lands with studs facing up, move 1 space.
- If the brick lands with studs facing down, move 2 spaces.
- If the brick lands on its side, move 3 spaces. ■



83529 EDITION 1410

Your adventure begins here! Aang and his friends have just escaped from Prince Zuko's Fire Nation Ship. Can they reach the Air Temple on top of the mountain, or will Prince Zuko get them first to capture them?

#1020 AIR TEMPLE

You've reached the top! The secrets of the Air Temple are yours. Now try switching sides and playing again!

Defeat
the
Guard
of
the
Air
Temple
and
obtain
the
Diamond

Along
Flood's
Path:
Attack the
Flood
Nobles
and
obtain
the
Diamond

Move
forward
and
attack
the
Flood
Nobles
to
obtain
the
Diamond

Along
the
Path
of the
Water
Nobles:
Move
forward
and
attack
the
Water
Nobles
to
obtain
the
Diamond

Along
Loyal
Nobles:
Attack the
Loyal
Nobles
and
obtain
the
Diamond

Construct
a Fire
Temple
using
the
Furnace
and
the
Copper
Ore
to
obtain
the
Diamond

Attack
the
Water
Nobles
and
obtain
the
Diamond

Bricks-in Motion!

LEGO CREATOR

You may not believe your eyes, but these LEGO models really moved! These miniaturized masterpieces were made for you to build, play with, and display. Family fun! Create your own vehicle with a remote control. Bumper car, with a remote control, when it hits an obstacle, it will turn!

Can YOU create with Motion Power? And how will you make it move?

Motion Power Fun Facts

The first functional helicopter was built in 1907. It flew less than two feet above the ground!

Spiders can detect their prey by sensing vibrations on the ground or in their webs!



Crawling Spider



Bumper Car



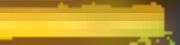
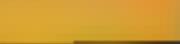
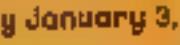
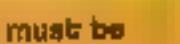
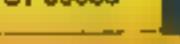
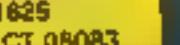
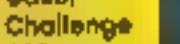
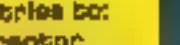
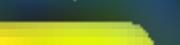
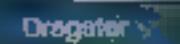
Did you know...
the first model vehicle was constructed in 1894. It could only move forward!



Even high-speed sports cars need more style? Take a spin with the Roaring Roadster convertible, with seats that recline and doors that open. But watch out — this roadster's so fast, you might get stopped for speeding while you're putting it together! When you're done, you can rebuild it into a drag racer or a jeep, or create a all-new vehicle of your very own!



Jeep



LEGO Creator Building Challenge!

Wouldn't it be great if there was a vehicle that could move on land, in the air, and under the sea? Here's your chance to build one! Construct a vehicle designed to work on the ground, in the sky and in the water and you could be one of five winners of a LEGO set of your choice worth up to \$100!

To Enter:

1. Build a model of a vehicle that works on land, in the sea, and in the air using pieces from your LEGO collection.
2. Write an essay (no more than 100 words) with the name of your vehicle and how it works.
3. Take a color photo of your model and send it or a high quality computer printout on photo paper (no Polaroids, please), along with your essay, to the address below. Please include your name, age, address and phone number.

Send Entries to:
LEGO Creator
Building Challenge
PO Box 1625
Enfield, CT 06083

For complete rules, visit

All entries must be received by January 3, 2007!

Deep in the desert of Tatooine, the crime lord Jabba the Hutt is about to throw Luke Skywalker and Han Solo to the ravenous Sarlacc monster below. Their friends Lando Calrissian and Princess Leia have a plan to help them escape... but they'll need R2-D2 to do it! Can you help them find where the little droid is hiding on this page? ■

Secrets of Jabba's SAIL BARGE



SAIL BARGE FACT FILE

VEHICLE TYPE:
Uhrükkin luxury sail barge

OWNER:
Jabba the Hutt

ARMAMENT:
Turret-mounted laser cannon

POWERED BY:
Antigravity repulsorlift, Wind

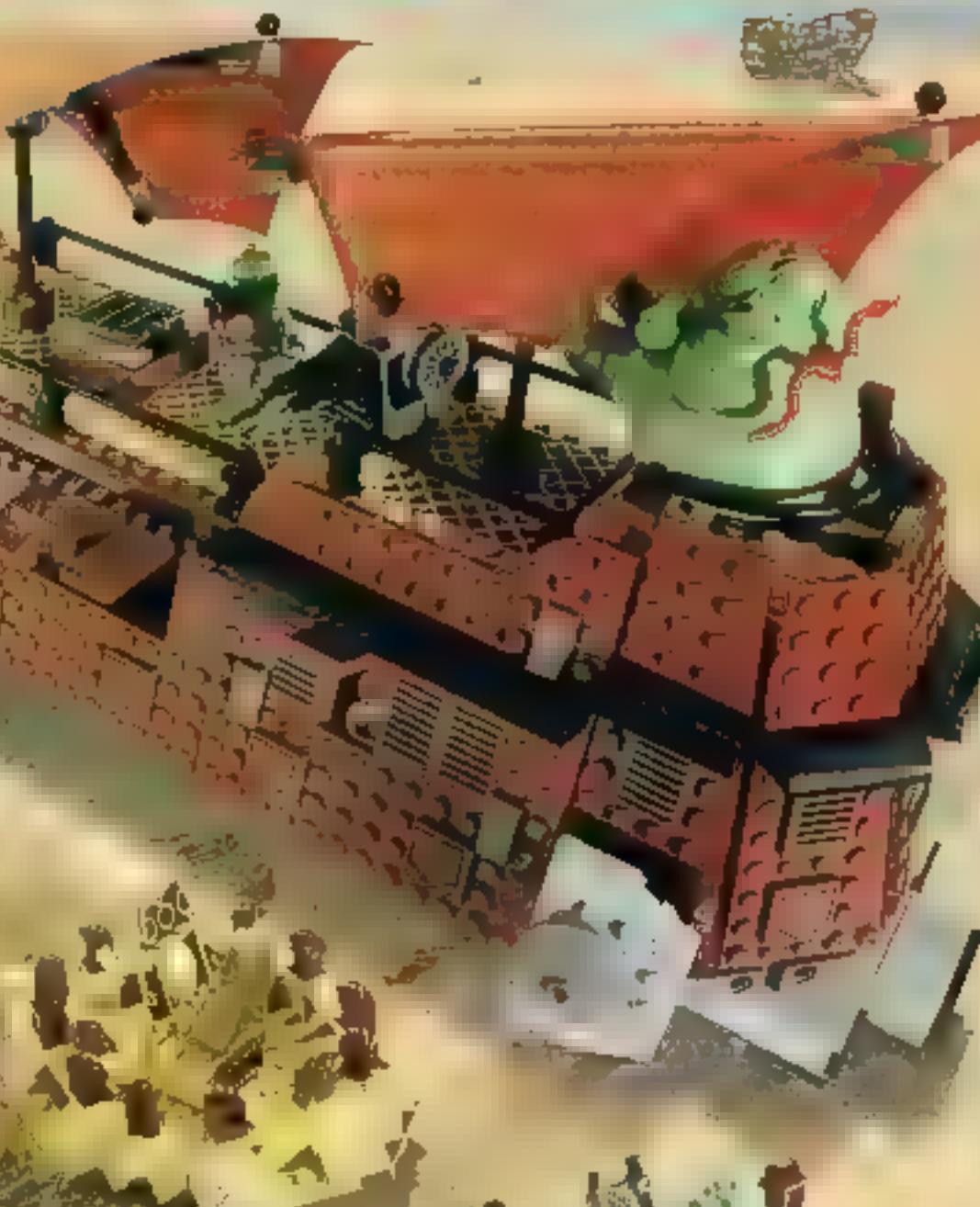
FEATURES:
Positionable sail, prison cell,
Fully-stocked kitchen,
throne chamber

SECURITY PROVIDED BY:
Boba Fett

ESCORT VEHICLE:
Prisoner transport skiff



Launch Boba Fett into action!



www.LEGO.com/STARWARS



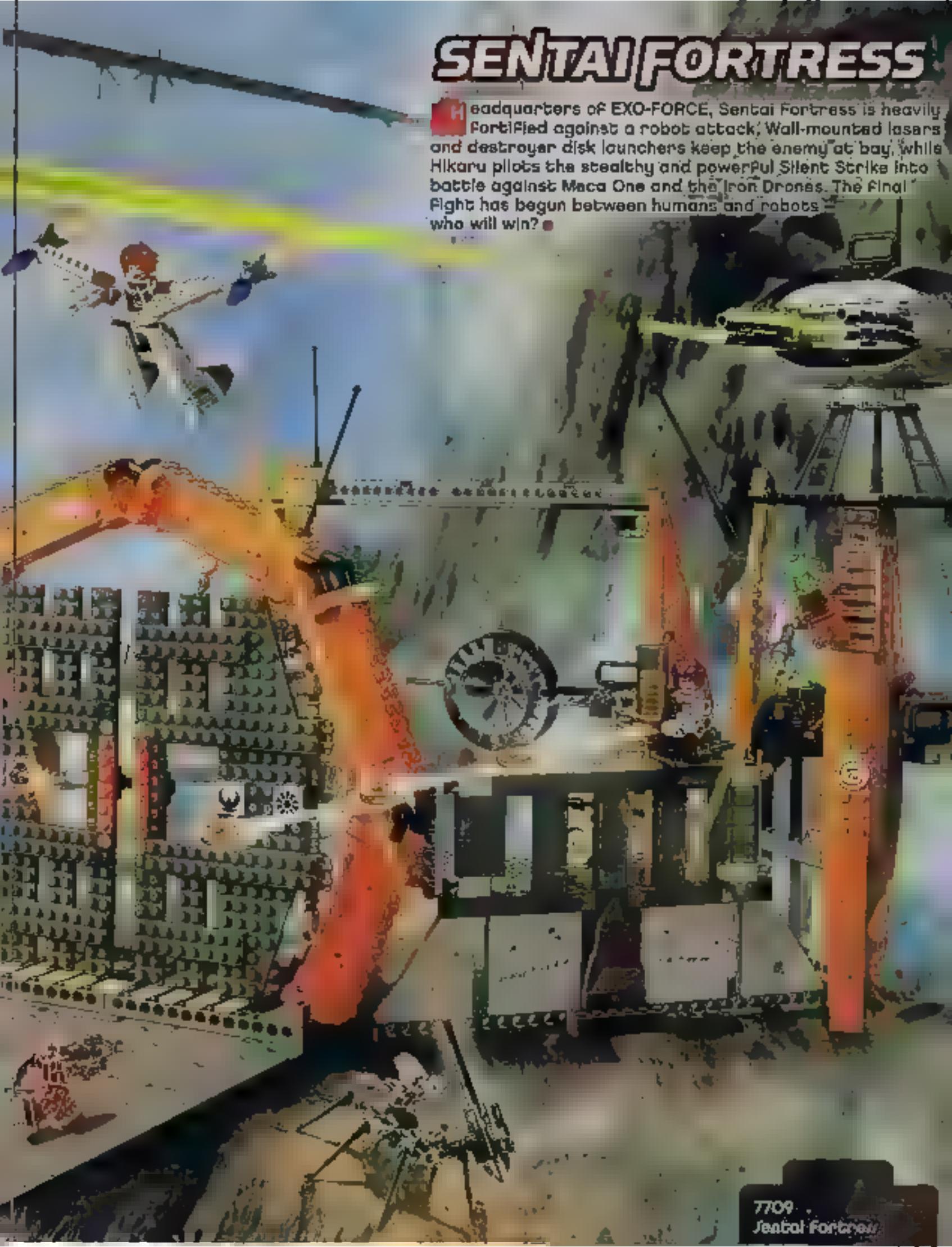
**STAR
WARS**

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SEN TAI FORTRESS

Sheadquarters of EXO-FORCE, Sentai Fortress is heavily fortified against a robot attack. Wall-mounted lasers and destroyer disk launchers keep the enemy at bay, while Hikaru pilots the stealthy and powerful Silent Strike into battle against Maca One and the Iron Drones. The final fight has begun between humans and robots— who will win? ■



BIONICLE



LEGO MINDSTORMS



NXT Milk Mixer Bot 2
Nicholas LaJole, age 11



Bob-beaven
Jason Kolbush, age 11

Building Challenge WINNERS



LEGO Pinball Machine
Brian Hague, age 12

Building Challenge WINNERS

© BIONICLE 2002

www.BIONICLE.com



Cool Creations
P.O. Box 1308
Enfield, CT 06083-1308

Remember to include your name, address and the name of your model.
No Polaroids please! Pictures will not be returned, so remember to take
an extra photo for yourself!

Stonewall
SQUAREPANTS

CREATURE
from the
KRUSTY KRAB

Bikini Bottom will never
be the same!

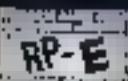


Available for your favorite
video game system October 2002



PlayStation 2

NINTENDO DS WII
PLAYSTATION 2 XBOX 360



With scenes containing for implied violence, gore and
language. Not recommended for children under the age of 10.

DISASTER.
THE INMATES
HAVE TAKEN
OVER GOTHAM
CITY'S ARKHAM
ASYLUM!

ASYLUM SINISTER!

THE SCARECROW

Hee hee! If Batman
comes, we'll show him a
FRIGHT-FULLY GOOD TIME!

THE RIDDLE

RIDDLE ME THIS: WHEN IS A
CELL NOT A CELL POOP?

POISON IVY

THE DARK KNIGHT HAS
BEEN A WEED IN MY
GARDEN LONG ENOUGH!

A MYSTERIOUS DIGITAL FLASHER IS THE NIGHT, OUTSTRIPPING THE
ONLY HERO WHO CAN DEFEAT THIS VILEARDUS TEAM.

LEGO

BATMAN

THE BATMAN

WELCOME TO ARKHAM ASYLUM, BATMAN — WE'RE SURE YOU'LL LIKE IT HERE!

IN FACT, YOU'LL NEVER LEAVE!

CAN BATMAN
DEFEAT HIS
ARCHENEMIES AND
SAVE GOTHAM
CITY? YOU
DECIDE!

www.LEGO.com/Batman



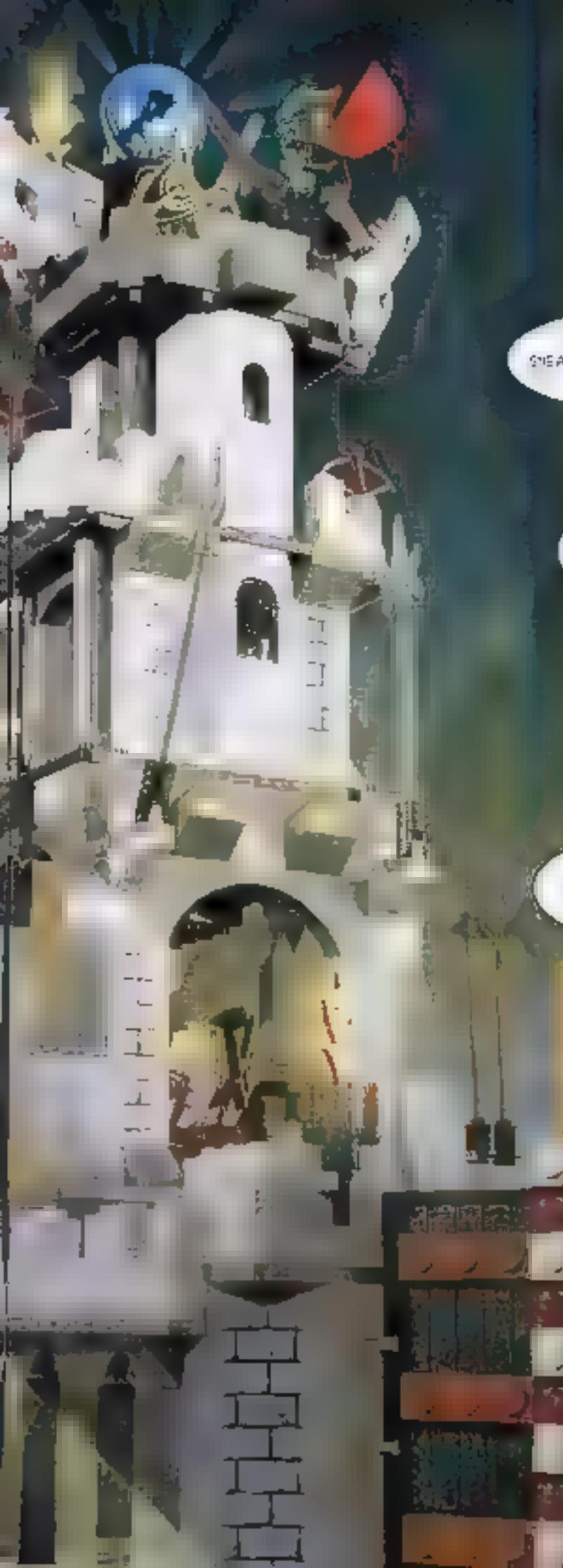
BATTLE FOR THE MISTLANDS TOWER!

Hidden deep in the heart of the Mistlands of Morcia, the Mistlands Tower holds a magical prize for any knight brave enough to climb to the top. Who will be the first to capture its power?

LEGO **KNIGHTS**
KINGDOM

DEFEND THE TOWER! SAVE THE KINGDOM!





DUEL FOR THE

TOWER!

King Joyko
Symbol: The Hawk
Weapon: Runepowder
Aliases: Sir Adric, Sir Kane and the Knights of Morcia
Skills: Noble, honest and wise, has amazing speed and skill in battle
Action: 2-handed sword and shield combo attack
Battle vehicle: Fireball-launching Axe-Ram

YOU'LL NEVER WIN.
VLADEK, THE KNIGHTS OF
MORCIA WILL STOP YOU!

NOT A CHANCE.
King Joyko, the magic of
the tower will be mine!

8702 LORD VLADEK

Symbol: The Scorpion
Weapon: Sword of Dark Sorcery
Aliases: Karzon, Dracul and the Rogue Knight Horde
Skills: Treacherous and cunning, uses magic sword to cheat and win
Action: Single-side-slash sneak attack
Battle vehicle: Wolf-smashing Crossbow Catapult



KNIGHTS KINGDOM

DEFEND THE TOWER

SAVE THE KINGDOM

King Joyko must build his battle vehicle to defend the Mistlands Tower! Help him by finding the pieces of his Fireball-Launching Axe-Ram and dragging out the pieces of Lord Vladak's evil Crossbow Catapult. Find all the right parts and you'll discover a secret message from the Book of Morcia!



MISTLANDS



THE



VILLAINS



SHIELD



ATTACK



OF



ALIENS



FOR



CAN



FOREVER



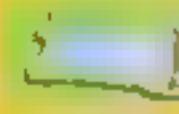
SAVE



THE



BATTLE



KINGDOM

MINDSTORMS On the Street Interview with Host



Meet Lee West! As a music artist, skateboarder, illustrator and more, he's the perfect host for the brand-new MINDSTORMS NXT video segments. You can view them (and see what he's talking about with Soda-Bot and the phone numbers) at www.MINDSTORMS.com.

Lee West's hobbies: Oakland Raiders, Foo Fighters, Purple Rain, The Big Lebowski

Tell us a little about yourself, Lee!

I'm an illustration major in student at California College of Arts and Crafts, and a pre-skateboarder and hip-hop artist.

ADVERTISEMENT

One of the places where you can find LEGO® MINDSTORMS NXT™ is at Amazon.com

SPECIAL OFFER!

Visit www.amazon.com/LEGO for a special offer for LEGO Club members. The first 500 people who buy a MINDSTORMS NXT set will receive \$25 worth of LEGO products and a FREE 8-pack of AA Energizer® or Lithium® batteries to power your robot. Offer valid through November 30th.



Why Energizer® Lithium® batteries?
You can "Create" for up to 3.5 hours longer* with your LEGO® MINDSTORMS® NXT!

*vs. Energizer® Max with continuous play. AA only. Results vary by design and programming.

Energizer, Energizer Bunny Design and other marks are trademarks of Energizer.

LEE WEST

How long have you been skateboarding?

I've been skating for about 15 years and doing skateboard tricks for 12 years. I was very inspired as a kid by movies such as "Back to the Future" and "Gremming the Cybele". When I saw how those characters were the freedom, the rebellion and the extreme of it, I thought that it was cool and I was a perfect fit in my life.

Did you play with LEGO bricks as a kid?

Yes! I was a LEGO kid. I used to get a whole bunch of random pieces from the kids in the neighborhood. I never had a complete set. Anytime I got in trouble, got grounded or got bored, I made stuff with LEGO. In my sophomore year we were going to make a 3D image of a childhood experience. I built a representation of my bedroom when I was two years old. I used two of the LEGO men to show the bed and my best friend.

What inspires you to be creative?

I am inspired by seeking new ways to experience and show reality. My Dad is an artist so as a little kid I was always inspired to be like him.

What's cool about MINDSTORMS NXT?

The intelligence behind it, but also that it's done with a sense of humor like the Soda-Bot. I don't like to take myself too seriously. It's pretty cool to be able to build robots with LEGO. Finally I can get some help around the house! :)

What would you want to build and program a MINDSTORMS robot to do for you?

Go get more phone numbers from girls for me!

What was Soda-Bot's secret to getting that girl's phone number?

It was saying as little as possible but using his body language (like the laugh, for example).

Any final words for the MINDSTORMS NXT builders out there?

Push your level of creativity with LEGO. Instead of using the instructions all the time, tweak it to the way that you like it. You will end up surprising yourself! ■

MINDSTORMS

Energizer® or Lithium®
is the recommended
battery for
MINDSTORMS NXT.

amazon.com

and you're done! ■



577 PIECES

ONE AMAZING ROBOTICS KIT!

The MINDSTORMS NXT robotics kit includes building and programming instructions for 4 unique and amazing robots, each designed to do something new and different for you. But the possibilities don't end there!

Each of the 577 elements in a MINDSTORMS NXT set is a flexible and functional component for designing and creating robots of your very own. Some are classic LEGO TECHNIC pieces to help you build a strong and sturdy framework for your robot's body. Some are gears, levers and wheels to make your robot leap into action at your command. And some are special parts that serve very special functions...or maybe just make your robot creation look cool. ■

I've got a good feeling about this.

Make your robot feel and react with the MINDSTORMS NXT Touch Sensor. The sensor can detect and respond to different kinds of contact when its tip is bumped, pressed or released. Use it to program your robot to pick up objects, change direction when it runs into an obstacle, activate at the push of a button and much more!

BEAMS



Who says robot construction can't be stylish? These beams not only look tight to form a solid body for your 'bot, but also match the color of the NXT computer at its core!

GEARS



Want to make your robot's components move faster, slower, or in a different direction? The NXT set has a different gear for every occasion. Plug some in and watch your creation spring to life!

TRIANGLES



It may look like one, but this is no clothes hanger. With its distinct shape and plenty of attachment points, this piece will help you design your robots in a whole new way.

POINTS



Whether you use them as teeth, spikes, or just decoration, these wild orange points are sure to give your creation's look some real bite.

EXTENDERS



Want to build a 4-armed alien monster? Here's a handy set of pieces to make one part of your robot pull on another. Snap one end into the top arm and one into the bottom to make them move together!

WHEELS



A bumpy road is no obstacle when you build these heavy-duty tires into your robot. With their powerful rubber treads, they'll take your creation just about anywhere you want it to go.

BLADES



Will it be a claw? A sword? A mechanical eyebrow? From fingers that grip to spider-bot legs, these pieces will help to define your robot's winning personality.

BALLS



Program your robot to fetch the red ball or dunk the blue one through a hoop. With enough practice, you might even be able to teach it to juggle!

LEGO® MINDSTORMS™ NXT available at these and other fine stores. For a full listing of retailers and locations please go to www.MINDSTORMS.com

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MINDSTORMS NXT IS THE

BIG ROBOT ON CAMPUS

We gave MINDSTORMS NXT robotics sets to some of the biggest, brightest and best in the business and asked them to show us their stuff — custom-designing their own unique robots that do what they want them to do.

"We wanted our robot to embody Reebok through sport," says Keiji Ando, member of BROCC Team Reebok, "so we wanted it to dunk and kick and stuff."

Keiji worked with LEGO and robot fans from different design departments at Reebok to create the mighty Reebot.

So what kind of 'bot is Reebot? "It's a reverse-dunking, long-range-sharp-shooting, penalty-goal-destroying, pressure-proof assassin!" Keiji proclaims.

And how will it fare against the other BROCC team creations? "Reebot will dunk all over them. It'll dunk on them 9 times before they hit the ground."



Check out Reebot and all the other BROCC robots at www.MINDSTORMS.com!



Southwest's NXT Airplane Robot



National Instruments' Mr. Nimbots



The Southwest Airlines team spread out to get inspired.

Energizer's robotic Bunny keeps going and going!

— What's NXT?

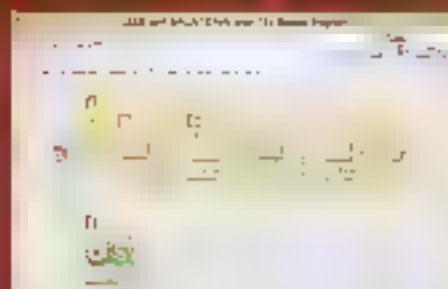
PROGRAMMING YOUR 'BOT

Programming your MINDSTORMS robots to do what you want is a piece of cyber-cake for the NXT Intelligent brick. Just load up the user-friendly program on your computer, check out a few easy tutorials, and you'll have a fully operational 'bot in no time flat!

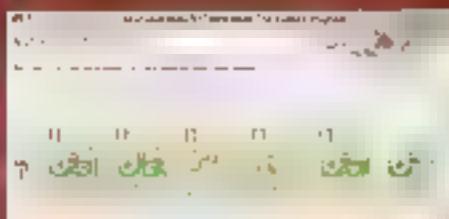
BE STILL MY BEATING HEART

4 EASY STEPS:

Here's a great first-time program to try out. Just follow these simple steps to bring Alpha Rex to life with a digital heartbeat!



- 1 Create a loop to tell the NXT that this program should keep repeating until you want it to stop.
- 2 Use the SOUND block to tell the NXT that it should display a heart image on its screen.
- 3 Next add a WAIT block to tell the NXT to pause between heartbeats.
- 4 That's it, it's a heartbeat! Now you can add SOUND blocks and more to make your robot do different things while its virtual heart beats for life. See Download your finished program on the next page to use it.



THE STING OF VICTORY

Want to make a program with a bit more bite? This sequence will make Spike the Scorpion-Bot walk toward a target, strike with his tail while playing a sound, retract his tail again, and retreat back to the starting point!

- 1 Create a loop to tell the robot to crawl toward a set distance using two of the MINDSTORMS NXT servo motors.
- 2 A tilde motor controls the tail. Adding this "MOVING" block here tells your scorpion to strike when he's finished moving.
- 3 Use the "TOUCH" block to tell the tail to stop when it contacts a target.
- 4 And placing the SOUND block here lets you set the NXT to play a sound when Spike strikes.
- 5 These two "ROTATE" blocks tell the tail and legs to reorient after a successful strike. Now Spike is ready to attack again!



LIGHT SENSOR

In brightest day and darkest night

The MINDSTORMS NXT Light Sensor helps your robot to see. It can tell the difference between light and dark, and distinguish one color from another by their light intensity. Use it to make a burglar alarm robot that activates when the light is turned on, a pathfinding robot that follows a line on the floor, or even a robot that can sort objects by color!

"Alpha Rex"



"Spike"

Now that you know how to program your MINDSTORMS NXT robot, try to think of ways to customize these programs to do different things. Pretty soon, you'll be building all-new programs to make your robot creations do whatever you want!

Find these programs and more in [Meet the Robots](http://www.mindstorms.com) at [MINDSTORMS.com](http://www.mindstorms.com).

ROBOTS

THROUGH TIME AND SPACE!

Robots have been around a lot longer than you may think. As far back as classical Greek mythology, we've had legends of obedient automations made from stone, clay, metal... even dragon's teeth!

Check out our timeline of robots through the modern age and see how it all leads up to the amazing technology of today's robotic creations! ■

700 B.C. The ancient Greek philosopher and mathematician Archytas is said to have created a mechanical bird that flew through the air powered by steam. But did it really happen, or is it just a story?

1738 Jacques de Vaucanson, inventor of automations, designs and constructs a mechanical duck with over 400 moving parts. It can flap its wings, eat, drink, and even digest grain. And yes, it can make the by-product of digestion, too...

1920 The word "robot" is introduced to the world by the Czech writer Karel Capek. His play "R.U.R." (Rossum's Universal Robots), is about artificial people created to serve humanity. But like so many robots in later science fiction, they eventually rebel and take over. Of course, we're pretty sure today's robots won't do that, right?

1927 Fritz Lang's silent movie "Metropolis" is released. "Maria," the film's robot villain, is the first of her kind to be seen on the silver screen.

1930-1940 Science fiction literature explodes with robots. Newspaper stands are full of pulp magazines with stories about robot servants, robot friends, robot explorers, robot warriors...in fact, robot pretty much everything!

1950-1960 Now robots are "really on the march." B-movies everywhere star the marvelous mechanoids. Whether they act as friendly assistants or world-conquering monsters, you can hardly turn around without seeing another robot on a "Coming Soon!" movie poster.

1977 A little film called "Star Wars" hits movie theaters around the world, featuring a pair of heroic droids named "R2-D2" and "C-3PO." Robots will never be the same again.

1980-1990 You say you like toy robots? The '80s and '90s had toy robots! Robots that walked, robots that talked, robots that turned into cars and jets and dinosaurs...but none that you could really program and control like a real robot. Then came...

1998 The LEGO Company creates the Robotics Invention System 1.0, also known as MINDSTORMS. Thanks to its innovative RCX brick, builders can finally build and program robots of their very own. But it didn't stop there...

2005 MINDSTORMS NXT finally arrives! With new hi-tech sensors, a new construction parts, and the incredible NXT "intelligent brick," MINDSTORMS NXT revolutionizes personal robot building. Finally, kids (and grown-ups) around the world can make robots that do well, pretty much anything they want them to!



www.MINDSTORMS.com

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What's NXT?



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